

Finding n^{th} term

The n^{th} partial sum of the series is given. Find the indicated term of the series.

1) $S_n = \left(\frac{n+5}{n-3}\right)$; 10th term

2) $S_n = \left(\frac{n^2-1}{2n+1}\right)$; 12th term

3) $S_n = n^3$; 33rd

2; 25th term

5) $S_n = (400 - n$

; 11th term

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7) $S_n = \left(\frac{n-1}{4n}\right)$; 36th term

8) $S_n = (n^3 + 1)$; 15th term